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### ABSTRACT

The invention relates to a circuit for receiving for transmitting microwaves, the circuit comprising radiating elements (144) for receiving (or transmitting) microwaves, filters for eliminating microwaves transmitted (or received) at different frequencies by the radiating elements, and amplifiers for the received (or transmitted) microwaves. The circuit includes a first (or last) stage (150, 152; 182, 184), connected to the radiating elements, having a planar filter (150; 182) whose rejectivity for transmit (or receive) frequencies is a fraction, preferably a small fraction, of the total rejectivity needed to eliminate transmit (or receive) frequencies, and an amplifier (152; 184) whose gain is a fraction of the total gain of the circuit. The planar filter of the first (or last) stage is preferably connected directly to the radiating elements. The noise seen by the radiating elements is minimized.